CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

March 24, 2016

Chuck Nielsen, President
Fairview Water Company
20252 Pegasus St
Tehachapi, CA 93561

RE: Perchlorate MCL Violation During the Month of January 2016 – Fairview Water Company, Water System No. 1502670
Citation No. 03_19_16C_013

Dear Mr. Nielsen:

The State Water Resources Control Board (hereinafter State Board), Division of Drinking Water has issued Citation No. 03_19_16C_013, for failure to comply with the provisions of the California Health & Safety Code and Title 22, California Code of Regulations. Specifically, the Fairview Water Company (hereinafter Water Company) failed to comply with the 0.006 mg/L primary maximum contaminant level (MCL) for perchlorate, during the month of January 2016. Failures in the blending treatment during the month of January 2016 caused the perchlorate MCL violation. The Citation is **enclosed**. Please carefully review the directives of the citation and take necessary corrective actions and submit a written response to the State Board by the deadlines in the directives.

The California Safe Drinking Water Act, Section 116577, provides for the State Board to be reimbursed by the public water system for costs incurred for preparing and issuing an enforcement action to that system. Therefore, the Fairview Water Company Water System has been billed for the preparation and issuance of this citation. The State Board's current billing rate for enforcement activities is $153 per hour. The hourly rate is subject to review and change upon approval. You will receive a bill for these costs following the end of the State's fiscal year, from our Fee Billing Unit in Sacramento.

If you have any questions regarding this matter, please contact our office at (661) 335-7315.

Sincerely,

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer, Tehachapi District
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

Enclosure: Citation No. 03_19_16C_013

CC: Kern County Environmental Health Services Department (w/out enclosure)
Mario Cervantes, Golden Empire Water, Contract Sampler and Certified Treatment Operator (via email)

CITATION NO. 03_19_16C_013

CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF DRINKING WATER

TO: Fairview Water Company Water System
System No. 1502670

ATTN: Chuck Nielsen, President
20252 Pegasus St
Tehachapi, CA 93561

CERTIFIED MAIL

CITATION NO. 03_19_16C_013

FOR

VIOLATION OF HEALTH AND SAFETY CODE SECTION 116555 (a)(1)

AND THE PRIMARY DRINKING WATER STANDARD FOR PERCHLORATE

Dated March 24, 2016

The State Water Resources Control Board (hereinafter "State Board"), acting by and through its Division of Drinking Water and the Deputy Director for the Division (hereinafter "Deputy Director"), hereby issues this citation (hereinafter "Citation") pursuant to Section 116650 of the California Health and Safety Code (hereinafter "CHSC") to Fairview Water Company for violation of CHSC section 116555(a)(1) and Title 22, California Code of Regulations (hereinafter "CCR"), Section 64431.

APPLICABLE AUTHORITIES

CHSC, Section 116550 states in relevant part:

(a) If the State Board determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the State Board may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.

(c) A citation may specify a date for elimination or correction of the condition constituting the violation.

(d) A citation may include the assessment of a penalty as specified in subdivision (e).

(e) The State Board may assess a penalty in an amount not to exceed one thousand dollars ($1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

Title 22, CCR, Section 64431 (hereinafter "Section 64431"), states in relevant part:

Public water systems shall comply with the primary MCLs in table 64431-A as specified in this article.

Table 64431-A
Maximum Contaminant Levels
Inorganic Chemicals

Chemical	*Maximum Contaminant Level, mg/L*
Aluminum	1.
Antimony	0.006
Arsenic	0.010
Asbestos	7 MFL*
Barium	1.
Beryllium	0.004
Cadmium	0.005
Chromium	0.05
Cyanide	0.15
Fluoride	2.0
Hexavalent chromium	0.010
Mercury	0.002
Nickel	0.1
Nitrate (as nitrogen)	10.
Nitrate+Nitrite (sum as nitrogen)	10.
Nitrite (as nitrogen)	1.
Perchlorate	0.006
Selenium	0.05
Thallium	0.002

* MFL=million fibers per liter; MCL for fibers exceeding 10 um in length.

Title 22, CCR Section 64432.1 (hereinafter "Section 64432.1") provides in relevant part:

Section 64432.3. Monitoring and Compliance - Perchlorate

(d) The water supplier shall require the laboratory to notify the supplier within 48 hours of the result whenever the level of perchlorate in a single sample exceeds the MCL, and shall ensure that a contact person is available to receive such analytical results 24-hours a day. The water supplier shall also require the laboratory to immediately notify the State Board of any perchlorate MCL exceedance if the laboratory cannot make direct contact with the

designated contact person within 48 hours. Within 48 hours of notification of the result, the water supplier shall:

(1) Collect and analyze a confirmation sample, and

(2) If the average of the two perchlorate sample results exceeds the MCL, report the result to the State Board within 48 hours. If the average does not exceed the MCL, inform the State Board of the results within seven days from the receipt of the original analytical result.

(3) If a system is unable to resample within 48 hours, it shall issue a Tier 1 notice to the consumers in accordance with sections 64463 and 64463.1 and shall collect and analyze a confirmation sample within two weeks of notification of the results of the first sample.

STATEMENT OF FACTS

The State Board is informed by the Fairview Water Company Water System (hereinafter "Water System") and believes that the Water System is a community water system located in Kern County that supplies water for domestic purposes to approximately 240 individuals through approximately 86 service connections. The Water System operates under Domestic Water Supply Permit No. 03-19-08P-008, issued on May 23, 2008, by the California Department of Public Health. The Water System is a community public water system, as defined in CHSC, section 116275.

The Water System utilizes two active groundwater wells (Well 01, Well 01 and Well 03) as its source of domestic water. Title 22, CCR, Division 4, Chapter 15, Article 4, establishes primary drinking water standards and monitoring and reporting requirements for inorganic constituents.

Community and nontransient noncommunity water systems must comply with the maximum contaminant level for perchlorate of 0.006 mg/L (6.0 ug/L), as established in Title 22 CCR Section 64431.

Well 01 (PS Code: 1502670-001) has a history of producing water above the nitrate MCL of 10. mg/L (as Nitrogen) and perchlorate MCL of 0.006 mg/L. Water produced by Well 03 (PS Code: 1502670-003) is in compliance with the respective MCLs for perchlorate and nitrate. The Water System provides blending treatment to comply with the respective MCLs for perchlorate and nitrate. Blending treatment for perchlorate is being provided since September 2010, in accordance with the approved blending plan dated March 22, 2010, which was approved by the State Board, by a letter dated September 15, 2010. The blending treatment is provided in the 10,000-Gallon Tank of the Water System, into which both Wells 01 and 03 pump. Compliance point for the blending treatment is the effluent of the 10,000-Gallon Tank (PS Code: 1502670-005).

Following nitrate MCL violation of Well 01 in 2015, the Water System submitted a permit amendment application and a revised nitrate and perchlorate blending plan dated September 2, 2015, to the State Board. By a letter dated December 4, 2015 (copy provided as **Attachment A**), the State Board approved the revised nitrate and perchlorate blending plan. In accordance with the approved blending plan, the Water System is required to collect weekly nitrate and perchlorate samples from the 10,000-Gallon Tank. On January 18, 2019, Mr. Mario Cervantes, contract sampler and treatment operator for the blending treatment, informed the State Board, about a high perchlorate sample collected on January 7, 2016, from the 10,000-Gallon Tank. This sample showed a result of 6.6 ug/L, compared to the MCL of 6.0 ug/L. Mr.

Cervantes informed the State Board that he was waiting for the result of the following week's perchlorate sample collected on January 11, 2016, from the 10,000-Gallon Tank. Mr. Cervantes also stated that BC Laboratories that analyzed the January 7, 2016 sample, did not call him to notify of the high perchlorate result. He stated that he received the result of the January 7, 2016, via email on January 15, 2016. Mr. Cervantes later informed the State Board that the perchlorate result for the sample collected on January 11, 2016, from the 10,000-Gallon Tank was 6.7 ug/L, and was also received via email on January 22, 2016. He further stated that it was not BC Laboratories protocol to call clients of perchlorate exceedances. **Since results of both samples collected on January 7, 2016 and January 11, 2016, from the 10,000-Gallon tank (compliance point for blending) were higher than the perchlorate MCL of 6.0 ug/L, the Water System violated the perchlorate MCL during the month of January 2016.**

According to the Perchlorate and Nitrate Blending Summary Report for the month of January 2016 (copy provided as **Attachment B**), that Mr. Cervantes submitted to the State Board, all weekly nitrate and perchlorate samples, collected after January 18, 2016, January 20, 2016, and January 25, 2016, from the 10,000-Gallon Tank showed results below the respective MCL for nitrate and perchlorate. In an email dated January 26, 2016, Mr. Cervantes informed the State Board that blending ratio was modified on January 19, 2016.

According to the Perchlorate and Nitrate Blending Summary Report for the month of February 2016 (received on March 17, 2016, from Mr. Cervantes and a copy provided as **Attachment C**), all weekly nitrate and perchlorate samples, collected during the month of February 2016, showed results below the respective MCL for nitrate and perchlorate.

Results of all nitrate and perchlorate samples collected during the months of January and February 2016 are summarized below in **Table 1**.

Table 1: Fairview Water Company - Summary of Nitrate and Perchlorate Results

Sample Date	Well 01 Nitrate Result (mg/L as N)	Well 01 Perchlorate Result (ug/L)	Well 03 Nitrate Result (mg/L as N)	Well 03 Perchlorate Result (ug/L)	Blended Water Nitrate Result (mg/L as N)	Blended Water Perchlorate Result (ug/L)
01/07/16	No Sample	No Sample	No Sample	No Sample	6.9	**6.6***
01/11/16	No Sample	No Sample	No Sample	No Sample	6.8	**6.7***
01/18/16	12	12	5.4	2.2	6.5	<4.0
01/20/16	10	8.9	5.1	<4.0	5.6	<4.0
01/25/16	13	14	5.2	<4.0	5.3	<4.0
01/31/16	No Sample	No Sample	No Sample	No Sample	No Sample	<4.0
02/04/16	No Sample	No Sample	No Sample	No Sample	5.9	<4.0
02/11/16	No Sample	No Sample	No Sample	No Sample	6.2	4.2
02/16/16	No Sample	No Sample	No Sample	No Sample	6.1	4.4
02/22/16	No Sample	No Sample	No Sample	No Sample	6.1	<4.0

***: Results Exceeding the Perchlorate MCL of 6.0 ug/L**

A review of the Monthly Perchlorate and Nitrate Blending Summary for the months of January and February 2016 (copies provided under **Attachments B and C**) indicates the following:

(a) Quantity of water produced daily by Well 01 and Well 03 is shown as 1,810 gallons and 19,310 gallons, respectively for each day, during the month of January 2016. Similarly, quantity of water produced daily by Well 01 and Well 03 is shown as 2,676 gallons and 8,060 gallons, respectively for each day during the month of February 2016. The Water System is not recording the actual quantity of water produced by the wells daily, required by the State Board, as part of the approval for blending treatment.

(b) Nitrate and perchlorate levels from the theoretical blending calculations do not coincide with the laboratory results of the weekly samples of the blended water.

(c) Columns B, C, E, F, G, H, and the column for the "Theoretical Blending Concentration" are not completely filled for each day of blending.

Based on recent discussions with Mr. Cervantes, it is unknown if the programmable logic control (PLC) feature of the blending treatment is functional or not. Based on the blending plan approved by the State Board, the PLC is supposed to shut down Well 01 when Well 03 is not running, to prevent high nitrate and/or perchlorate in the blended water. Operations plan for the blending treatment should be reviewed and updated by the Water System to reflect the current operation of the blending treatment and to ensure consistent and reliable blending operation.

PUBLIC NOTIFICATION

To notify the customers about the high perchlorate samples in January 2016, on January 26, 2016, the State Board directed the Water System to issue public notification to the customers of the Water System. On January 27, 2016, the Water System issued the public notification to the customers of the Water system.

In the future, the Water System shall require its contract laboratory to notify the Water System's authorized representative within 48 hours of the result whenever the level of perchlorate in a single sample exceeds the MCL, and shall ensure that a contact person is available to receive such analytical results 24-hours a day. The Water System shall also require the laboratory to immediately notify the State Board of any perchlorate MCL exceedance if the laboratory cannot make direct contact with the designated contact person within 48 hours. Within 48 hours of notification of the result, the Water System shall collect and

analyze a confirmation sample, and if the average of the two perchlorate sample results exceeds the MCL, report the result to the State Board within 48 hours. If the average does not exceed the MCL, inform the State Board of the results within seven days from the receipt of the original analytical result. If the Water System is unable to resample within 48 hours, it shall issue a Tier 1 notice to the consumers in accordance with Sections 64463 and 64463.1 of Title 22, CCR, and shall collect and analyze a confirmation sample within two weeks of notification of the results of the first sample.

DETERMINATIONS

Based on the above Statement of Facts, the State Board has determined that the Water System has violated CHSC, Section 116555 and Section 64431, in that the blended water from the 10,000-Gallon Tank exceeded the perchlorate MCL on January 7, 2016 and January 11, 2016. The Water System's contract laboratory failed to notify the Water System's authorized representative (Mario Cervantes) within 48 hours of the results of the perchlorate samples collected on January 7, 2016 and January 11, 2016.

DIRECTIVES

Fairview Water Company is hereby directed to take the following actions:

1. Commencing on the date of service of this Citation, comply with Title 22, CCR, Section 64431 and remain in compliance.

2. On or before **April 4, 2016**, submit a written response to the State Board indicating its agreement to comply with the directives of this Citation.

3. In the future, the Water System shall require its contract laboratory to notify the Water System's authorized representative within 48 hours of the result whenever the level of perchlorate in a single sample from the 10,000-Gallon Tank exceeds the MCL, and shall ensure that a contact person is available to receive such analytical results 24-hours a day.

4. In the future, within 48 hours of notification of a perchlorate result above 6.0 ug/L from the blended water, the Water System shall collect and analyze a confirmation sample, and if the average of the two perchlorate sample results exceeds the MCL, report the result to the State Board within 48 hours. If the Water System is unable to resample within 48 hours, it shall issue a Tier 1 notice to the consumers in accordance with Sections 64463 and 64463.1 of Title 22, CCR

5. The Water System shall maintain accurate daily production records of Well 01 and Well 03 and report the quantity of water produced daily on the Monthly Perchlorate and Nitrate Blending Summary Report. The Water system shall also ensure that all columns B, C, E, F, G, H, and the column for the "Theoretical Blending Concentration" are completely filled for each day of blending.

6. By April 15, 2016, the Water System shall review the current operations plan for the blending treatment and submit an updated operations plan to reflect the current blending operation. The blending treatment shall be operated in accordance with an approved operations plan.

7. By April 15, 2016, the Water System shall test the operation of the PLC and submit a written status report to the State Board about the functionality of the PLC, specifically about the functionality of the feature to shut down Well 01 when Well 03 is not pumping into the 10,000-Gallon Tank.
8. Commencing on the date of service of this Citation, collect monthly samples for nitrate and perchlorate from Well 01 and Well 03, and ensure that the analytical results are reported to the State Board electronically by the analyzing laboratory, no later than the 10th day following the month in which the analysis was completed.
9. Notify the State Board in writing no later than five (5) days prior to the deadline for performance of any Directive set forth herein if Water System anticipates it will not timely meet such performance deadline.

All submittals required by this Citation shall be addressed to:

Jaswinder S. Dhaliwal, P.E., Senior Sanitary Engineer
State Water Resources Control Board
Division of Drinking Water, Tehachapi District
4925 Commerce Drive, Suite 120
Bakersfield, California 93309

As used in this Citation, the date of issuance shall be the date of this Citation; and the date of service shall be the date of service of this Citation, personal or by certified mail, on the Water System.

The State Board reserves the right to make such modifications to this Citation and/or to issue such further Citation(s) as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Citation and shall be deemed effective

upon issuance.

Nothing in this Citation relieves Water System of its obligation to meet the requirements of the California SDWA, or any regulation, standard, permit or Citation issued thereunder.

PARTIES BOUND

This Citation shall apply to and be binding upon Water System, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The Directives of this Citation are severable, and Water System shall comply with each and every provision hereof, notwithstanding the effectiveness of any other provision.

FURTHER ENFORCEMENT ACTION

Section116270, Chapter 4, Part 12, Division 104 of the CHSC authorizes the State Board to: issue additional citations with assessment of penalties if a public water system continues to fail or correct a violation identified in a citation; take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with orders of the State Board; and petition the superior court to take various enforcement measures against a public water system that has failed to comply with

orders of the State Board. The State Board does not waive any further enforcement action by issuance of this citation.

Jaswinder Dhaliwal — March 24, 2016

Jaswinder S. Dhaliwal, P.E. — Date
Senior Sanitary Engineer
State Water Resources Control Board
Division of Drinking Water

Certified Mail No. 7015 1520 0000 4433 1631

Attachments

Attachment A: Letter Dated December 4, 2015
Attachment B: Monthly Perchlorate and Nitrate Blending Summary Report for Jan. 2016
Attachment C: Monthly Perchlorate and Nitrate Blending Summary Report for Feb. 2016

Cc: Kern County Environmental Health Services Department (w/o attachments)
Mario Cervantes, Golden Empire Water, Contract Sampler & Treatment Operator (via email)

(JSD/jsd)

Attachment A

Letter dated December 4, 2015, from the State Board

State Water Resources Control Board
Division of Drinking Water

December 4, 2015

Doran Nielsen, President
Fairview Water Company, LLC
20252 Pegasus Street
Tehachapi, CA 93561

RE: APPROVAL OF BLENDING TREATMENT FOR MEETING PERCHLORATE AND NITRATE DRINKING WATER STANDARDS, FAIRVIEW WATER COMPANY, WATER SYSTEM NO. 1502670

Dear Mr. Nielsen:

The Division of Drinking Water, State Water Resources Control Board (State Board) regulates Fairview Water Company (Water Company) for compliance with applicable drinking water regulations. The Water Company submitted a permit amendment application, dated September 2, 2015, for blending treatment to meet the respective drinking water standard for nitrate, before delivery to customers. The 2015 permit amendment application was submitted, following confirmation of violation of nitrate maximum contaminant level (MCL) of Well 01. The following table shows the July-August 2015 timeline for the nitrate MCL violation of Well 01 and results of nitrate and perchlorate samples collected from Well 01, Well 03 and 10,000-Gallon blending tank.

Sample Date	Sampling Location (PS Code)	Nitrate Result Nitrate as Nitrogen (mg/L)	Perchlorate Result (ug/L)	Remarks
July 27, 2015	Well 01 (1502670-001)	11 mg/L*	6.69 ug/L	Nitrate and perchlorate in Well 01 are both above the MCLs.
July 27, 2015	Well 03 (1502670-003)	No Sample	<Reporting Limit (RL = 4.0 ug/L)	Perchlorate in Well 03 is below the MCL.
July 27, 2015	10,000-Gal. Tank (1502670-005)	No Sample	<Reporting Limit (RL = 4.0 ug/L)	Perchlorate is below the MCL in the blended water.
Aug. 6, 2015	Well 01 (1502670-001)	10 mg/L*	No Sample	Nitrate level in Well 01 is right at the nitrate MCL.
Aug. 6, 2015	Well 03 (1502670-003)	5.1 mg/L	No Sample	Nitrate in Well 03 is below the MCL.
Aug. 6, 2015	10,000-Gal. Tank (1502670-005)	5.2 mg/L	No Sample	Nitrate level in the blended water is below the MCL.

*: Based on the results of July 27, 2015 and August 6, 2015, nitrate sampling of Well 01, average nitrate level in Well 01 is 10.5 mg/L (nitrate as nitrogen), exceeding the nitrate MCL of 10 mg/L (nitrate as nitrogen).

Enclosed with the above-mentioned permit amendment application was a modification, dated September 2, 2015, to the approved Blending Plan, dated March 22, 2010, which was originally submitted to meet the 6.0 ug/L primary drinking water standard for perchlorate. The submitted updated Blending Plan is approved herein and the permit amendment application is accepted for filing.

The updated Plan demonstrates the ability of the Water Company to meet both the perchlorate and nitrate drinking water standards in water delivered to customers. The updated Blending Plan describes how the Water Company's active sources (Well 01 and Well 03) are utilized so as to have an acceptable blend in the 10,000-gallon storage tank before discharge into the distribution system. The Plan utilizes a Programmable Logic Control (PLC) system to control pumping from the two wells and for notification of alarms.

A blend is deemed acceptable when the levels of both nitrate and perchlorate are consistently maintained below the MCL of 45 mg/L (nitrate as nitrate) for nitrate, 10 mg/L (nitrate as nitrogen) and 6.0 ug/L for perchlorate. In fact, the State Board would like to see (performance goals) the levels for nitrate and perchlorate below (80% of MCL) which are 36 mg/L (nitrate as nitrate) / 8 mg/L (nitrate as nitrogen) and 4.8 ug/L perchlorate, respectively.

Please note that starting January 1, 2016, all nitrate results must be reported as nitrogen, corresponding to the nitrate MCL of 10 mg/L (nitrate as nitrogen). Any nitrate results reported electronically as nitrate, after December 31, 2015, will be rejected, and will need to resubmitted, in the correct reporting units.

Approval of the updated Nitrate and Perchlorate Blending Plan by the State Board is subject to the following conditions:

1. Only Well 01 and Well 03 shall be used for nitrate and perchlorate blending treatment. The Water Company shall not use any other source of water without first applying for an amended water supply permit and receiving written approval of the State Board.

2. The Water Company shall monitor nitrate and perchlorate **weekly** in the blended water, from the 10,000-gallon storage tank (PS Code: 1502670-005), in accordance with the enclosed monitoring schedule (**Enclosure A**).

3. The Water Company shall monitor Well 01 and Well 03 **quarterly** for nitrate and perchlorate in accordance with the enclosed monitoring schedule (**Enclosure A**).

4. The Water Company shall submit source and blended water monitoring results to the State Board, via Electronic Data Transfer (EDT), using the appropriate PS Codes, as shown in the table on page 1 of this letter.

5. The Water Company shall operate nitrate and perchlorate blending treatment facility in accordance with an approved operations plan and shall not make changes to the blending operation, without first submitting an updated operations plan, and obtaining written approval from the State Board.

6. The Water Company shall maintain daily records of nitrate and perchlorate blending and shall submit **separate** blending summary reports (one for nitrate and one for perchlorate)

to the State Board, for each month, by the tenth day of the following month. Each blending summary report must contain, as a minimum, the following information:

a) Amount of water produced daily by Well 01 and Well 03;

b) The most recent monitoring results for Well 01, Well 03, and the blended water for nitrate and perchlorate; and

c) The calculated daily theoretical blend level of nitrate and perchlorate.

Enclosure B contains the forms that the Water Company may use to report theoretical blending calculations to the State Board each month. The Water Company may develop its own monthly reporting forms for nitrate and perchlorate but they must contain, as a minimum, the information contained in these forms.

7. Compliance with the nitrate and perchlorate MCLs shall be determined monthly using average value of all samples collected during the month from the blended water.

8. The current approval for nitrate and perchlorate blending is only valid for blending of Well 01 with Well 03 water. The Water Company shall notify the State Board within 24 hours when Well 03 is shut down for any reasons and before switching to solely using the ground water from Well 01. The Water Company shall provide Tier 1 public notification within 24 hours of shutdown of Well 03 and submit a copy of the public notice along with a signed proof of notification to the State Board within 3 days of providing the public notification.

9. The Water Company shall operate the blending facilities in accordance with the PLC system, as described in the Blending Operations Plan dated March 2010, and prepared by Mr. Wittgraff, and updated on September 2, 2015. If there is any problem with the PLC system, the Water Company shall notify the State Board within 24 hours and take corrective actions.

10. The nitrate and perchlorate Blending facility is classified as a T2 Facility. The Water Company shall designate a chief treatment operator with at least T2 certification or higher and a shift operator with at least T1 certification. The designated treatment operator shall inspect the blending facilities at least weekly and maintain records of inspection.

11. If there is a significant increase in nitrate or perchlorate level in Well 01 and/or Well 03, the Water Company shall notify the State Board and submit a revised blending plan to the State Board for review and approval.

This approval letter supersedes the previous approval, granted under the letter dated September 15, 2010. If you have any questions regarding this letter, please call Dr. AbdelRahman M. Shurbaji in our office at (661) 335-7317.

Sincerely,

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
Southern California Branch
Drinking Water Field Operations

Enclosures:

Enclosure A: Nitrate and Perchlorate Monitoring Schedule
Enclosure B: Theoretical Blending Calculation Summary Forms for Nitrate and Perchlorate

CC: Kern County Environmental Health Services Department (w/out enclosures)
Mario Cervantes, Golden Empire Water (via email)

Ltr-120415-Updated Approval for Perchlorate and NitrateBlending-1502607

JSD/ams

Enclosure A

Nitrate and Perchlorate Monitoring Schedule

Fairview Water Company

Perchlorate and Nitrate Monitoring Schedule (Dec. 2015)

The wells and 10,000-gallon tank effluent shall be monitored for perchlorate and nitrate according to the following schedule:

	Perchlorate	Nitrate	PS Code
Well 01	Quarterly	Quarterly	1502670-001
Well 03	Quarterly	Quarterly	1502670-003
10,000-Gal. Tank Effluent	Weekly	Weekly	1502670-005
10,000-Gal. Tank Effluent	Collect a Follow-up Sample Within 24 hours of receipt Notification from the Lab about a weekly sample being over the Perchlorate MCL	Collect a Follow-up Sample Within 24 hours of receipt Notification from the Lab about a weekly sample being over the Nitrate MCL	1502670-005

All results must be reported to the State Water Resources Control Board via EDT.

Enclosure B

Theoretical Blending Calculation Summary Form for Nitrate

&

Theoretical Blending Calculation Summary Form for Nitrate

MONTHLY BLENDING REPORT FOR:_____

Water System Name:_____ System No._____ Flowmeter calibration:_____ (date)

Wells:_____

Month/Year:_____

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern** (ug/l) Raw Water		Well 01	Well 03			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well 01	Well 03	Well 01	Well 03	Well 01	Well 03	C =	F =	G =	H =			
	1502670-001	1502670-003	A	D	B	E	AXB	DXE	C+F	A+D	G/H	1502670-005	
1													
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30													
31													
Total:													
Avg:													

Note: If the blended perchlorate level is 6.0 ug/L or more, notify SWRCB-DDW immediately and take corrective actions.

Instructions for Completing Blending Form

1 Water System Name, System No., Month/Year - self explanatory
2 Constituent Being Blended (**) - name of contaminannt whose concentration is being reduced by blending.
3 Source 1 =, Source 2 = - name of sources being blended; for example, "Well 01", "Well 02", etc.
4 Quantity of Water - amount of water from that source on that day as read on meter. The meter should be read everyday.
5 Concern ** - concentration of constituent being blended as determined from samples collected during the last quarter. This number should be same for entire month.
6 A x B =, D x E = - multiplication product of A & B, and D & E. See example.
7 C + F =, A + D = - additive sum of C, F & A, D. See example.
8 G / H = - G divided by H. See example.

EXAMPLE

On June 22, 2015, Well #1 produced 500 gallons and Well #6 produced 1000 gallons
Samples taken on June 15, 2015, indicated the following concentrations for perchlorate:
Well #1 - 7 ug/l, and Well #6 - 4 ug/L

So A = 500, B = 8, C = A x B = 500 x 7 = 3500
D = 1000, E = 4, F = D X E = 1000 x 4 = 4000
G = C + F = 3500 + 4000 = 7,500
H = A + D = 500 +1000 = 1,500
** in Blend = G / H = 7,500 / 1,500 = 5.0
Theoretical concentration of perchlorate in the blended water from the two sources on June 22, 2015, is 5 ug/L (less than the MCL of 6 ug/L).

MONTHLY BLENDING REPORT FOR:_____

Water System Name:_____ System No._____ Flowmeter calibration:_____ (date)

Wells:_____

Month/Year:_____

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern** (ug/l) Raw Water		Well 01	Well 03			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well 01	Well 03	Well 01	Well 03	Well 01	Well 03	C =	F =	G =	H =			
	1502670-001	1502670-003	A	D	B	E	AXB	DXE	C+F	A+D	G/H	1502670-005	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
Total:													
Avg:													

Note: If the blended nitrate level is 10 mg/L or more (nitrate as nitrogen), notify SWRCB-DDW immediately and take corrective actions

Instructions for Completing Blending Form

1 Water System Name, System No., Month/Year - self explanatory
2 Constituent Being Blended (**) - name of contaminannt whose concentration is being reduced by blending.
3 Source 1 =, Source 2 = - name of sources being blended; for example, "Well 01", "Well 02", etc.
4 Quantity of Water - amount of water from that source on that day as read on meter. The meter should be read everyday.
5 Concern ** - concentration of constituent being blended as determined from samples collected during the last quarter. This number should be same for entire month.
6 A x B =, D x E = - multiplication product of A & B, and D & E. See example.
7 C + F =, A + D = - additive sum of C, F & A, D. See example.
8 G / H = - G divided by H. See example.

EXAMPLE

On June 22, 2015, Well #1 produced 500 gallons and Well #6 produced 1000 gallons
Samples taken on June 15, 2015, indicated the following concentrations for nitrate:
Well #1 - 15 mg/L (nitrate as nitrogen), and Well #6 - 5 mg/L (nitrate as nitrogen)

So A = 500, B = 15, C = A x B = 500 x 15 = 7,500
D = 1000, E = 5, F = D X E = 1000 x 5 = 5,000
G = C + F = 7,500 + 5,000 = 12,500
H = A + D = 500 +1000 = 1,500
** in Blend = G / H = 12,500 / 1,500 = 8.3
Theoretical concentration of nitrate in the blended water from the two sources on June 22, 2015, is 8.3 mg/L (less than the nitrate MCL of 10 mg/L).

Attachment B

Monthly Perchlorate and Nitrate Blending Summary Report
for
January 2016

MONTHLY BLENDING REPORT FOR: Jan 16

Water System Name: FAIRVIEW WATER CO. System No. 1502670 Flowmeter calibration: 10-15 (date)

Wells: 1 & 3

Month/Year: JANUARY 2016

PERCHLORATE

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern** (ug/l) Raw Water		Well 01	Well 03			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well 01	Well 03	Well 01	Well 03	Well 01	Well 03							
	1502670-001	1502670-003	A	D	B	E	C=	F=	G=	H=			
							AXB	DXE	C+F	A+D	G/H	1502670-005	
1	23	117	2,676	<0.060									
2	23	117	2,676	<0.060									
3	23	117	2,676	<0.060									
4	23	117	2,676	<0.060									
5	23	117	2,676	<0.060									
6	23	117	2,676	<0.060									
7	23	117	2,676	<0.060									
8	23	117	2,676	<0.060							3.4 ug/l	6.6 ug/l	M.L
9	23	117	2,676	<0.060									
10	23	117	2,676	<0.060									
11	23	117	2,676	<0.060									
12	23	117	2,676	<0.060							3.4 ug/l	6.7 ug/l	M.L
13	23	117	2,676	<0.060									
14	23	117	2,676	<0.060									
15	23	117	2,676	<0.060		5 AVG							
16	23	117	2,676	<0.060									
17	23	117	2,676	<0.060									
18	23	117	2,676	<0.060	12. ug/l	2.2 ug/l	31641.6	5964.4	37606	10736	3.4 ug/l	01 ug/l	M.L
19	23	117	2,676	<0.060									
20	23	117	2,676	<0.060	<0.5 ug/l	<0.01 ug/l							
21	23	117	2,676	<0.060				5 AVG			3.4 ug/l	.01 ug/l	M.L
22	23	117	2,676	<0.060									
23	23	117	2,676	<0.060									
24	23	117	2,676	<0.060									
25	23	117	2,676	<0.060	14 ug/l	.01 ug/l							
26	23	117	2,676	<0.060							3.4 ug/l	.01 ug/l	M.L
27	23	117	2,676	<0.060									
28	23	117	2,676	<0.060									
29	23	117	2,676	<0.060									
30	23	117	2,676	<0.060									
31	23	117	2,676	<0.060									
Total:			82,300	241,500	34.8 ug/l	2.22 ug/l					3.4 ug/l	.01 ug/l	M.L
Avg:					11.6 ug/l	.74 ug/l						13.3 ug/l	M.C
											3.4 ug/l	2.2 ug/l	M.C

Note: If the blended perchlorate level is 6.0 ug/L or more, notify SWRCB-DDW immediately and take corrective actions.

perchlorate blending form

SWRCB-DDW (12/2015)

MONTHLY BLENDING REPORT FOR: Jan 16

Water System Name: FAIRVIEW WATER CO. System No. 1502670 Flowmeter calibration: 10-15 (date)

Wells: 1 & 3

Month/Year: JANUARY 2016

NITRATES

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern** (ug/l) Raw Water		Well 01	Well 03			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well 01	Well 03	Well 01	Well 03	Well 01	Well 03	C=	F=	G=	H=			
	1502670-001	1502670-003	A	D	B	E	AXB	DXE	C+F	A+D	G/H	1502670-005	
1	23	117	2,676	[illegible]									
2	23	117	2,676	<0.060									
3	23	117	2,676	<0.060									
4	23	117	2,676	<0.060									
5	23	117	2,676	<0.060									
6	23	117	2,676	<0.060									
7	23	117	2,676	<0.060									
8	23	117	2,676	<0.060								6.9 mg/L	M.L
9	23	117	2,676	<0.060									
10	23	117	2,676	<0.060									
11	23	117	2,676	<0.060									
12	23	117	2,676	<0.060								6.8 mg/L	M.L
13	23	117	2,676	<0.060									
14	23	117	2,676	<0.060									
15	23	117	2,676	<0.060									
16	23	117	2,676	<0.060									
17	23	117	2,676	<0.060									
18	23	117	2,676	<0.060	12 mg/L	5.4 mg/L	29436	41412	71348	10736	6.6 mg/L	6.5 mg/L	M.L
19	23	117	2,676	<0.060									
20	23	117	2,676	<0.060	10 mg/L	5.1 mg/L							
21	23	117	2,676	<0.060								5.5 mg/L	M.L.
22	23	117	2,676	<0.060									
23	23	117	2,676	<0.060									
24	23	117	2,676	<0.060									
25	23	117	2,676	<0.060	13 mg/L	5.2 mg/L						5.3 mg/L	M.L
26	23	117	2,676	<0.060									
27	23	117	2,676	<0.060									
28	23	117	2,676	<0.060									
29	23	117	2,676	<0.060									
30	23	117	2,676	<0.060									
31	23	117	2,676	<0.060									
Total:			80,300	241,800	35 mg/L	15.7 mg/L						31 mg/L	M.L
Avg:					11 mg/L	5.2						6.2 mg/L	M.L

Note: If the blended nitrate level is 10 mg/L or more (nitrate as nitrogen), notify SWRCB-DDW immediately and take corrective actions

nitrate blending form

SWRCB-DDW (12/2015)

Laboratories, Inc.
Environmental Testing Laboratory Sinco 1949

BC LabNet - Sample Results #1602449-02

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | [<] 02 [>]

Golden Empire Water
1605 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:58

Sampling Location:
Sample Name: Well #3
Sample Date: 1/26/2016 3:00:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	5.2	--	0.10	mg/L	1	EPA-300.0	1/26/16	JSW	IC8	BZA2265	No Prep	1/26/16	
Perchlorate	<4.0	--	4.0	ug/L	"	EPA-314.0	2/10/16	"	IC6	BZB1122	"	2/10/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

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Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1602449-01

Log In | Search | Help | Log Out

Date Selection | Work List | Work Order | < 01 [>]

Golden Empire Water
1505 Condaco Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:57

Sampling Location:
Sample Name: Well #1
Sample Date: 1/25/2016 2:40:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	13	--	0.20	mg/L	2	EPA-300.0	1/26/16	JSW	IC8	BZA2265	No Prep	1/26/16	A07
Perchlorate	14	--	4.0	ug/L	1	EPA-314.0	2/10/16	"	IC6	BZB1122	"	2/10/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.

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BC LabNet - Sample Results #1602017-02

Log In   Search   Help   Log Out

Data Selection   Work List   Work Order   [<] 02 [>]

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported: 02/23/16 18:56

Sampling Location:
Sample Name: Well #3
Sample Date: 1/20/2016 11:30:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	5.1	--	0.10	mg/L	1	EPA-300.0	1/21/16	OLH	IC5	BZA1708	No Prep	1/20/16	
Perchlorate	<4.0	--	4.0	ug/L	"	EPA-314.0	1/30/16	EMW	IC6	BZB0071	"	1/30/16	

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Hexavalent Chromium	7.6	--	0.20	ug/L	1	EPA-218.6	1/20/16	EMW	IC-4	BZA1076	No Prep	1/20/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1602017-01

Log In | Search | Help | Log Out

Data Selected | Work List | Work Order | < 01 [>]

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:56

Sampling Location:
Sample Name: Well #1
Sample Date: 1/20/2016 9:65:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	10	--	0.20	mg/L	2	EPA-300.0	1/21/16	OLH	IC5	BZA1708	No Prep	1/20/16	A07
Perchlorate	8.9	--	4.0	ug/L	1	EPA-314.0	1/30/16	EMW	IC6	BZB0071	"	1/30/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.

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BC LabNet - Sample Results #1601759-01

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 01 >

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:53

Sampling Location:
Sample Name: Well #1
Sample Date: 1/18/2016 1:40:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Perchlorate	12	0.72	4.0	ug/L	1	EPA-314.0	1/30/16	EMW	IC6	BZA2680	No Prep	1/29/16	

Flag Explanations

Flag	Explanation
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

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Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1601759-02

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | [<] 02 [>]

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:55

Sampling Location:
Sample Name: Well #3
Sample Date: 1/16/2016 2:35:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	5.4	0.016	0.10	mg/L	1	EPA-300.0	1/19/16	OLH	IC5	BZA1477	No Prep	1/19/16	
Perchlorate	2.2	0.72	4.0	ug/L	"	EPA-314.0	1/30/16	EMW	IC6	BZA2660	"	1/29/16	J

Flag Explanations

Flag	Explanation
J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

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Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1601759-01RE1

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | [<] 01RE1 [>]

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:55

Sampling Location:
Sample Name: Well #1
Sample Date: 1/18/2016 1:40:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	12	0.018	0.10	mg/L	1	EPA-300.0	1/19/16	OLH	IC5	BZA1477	No Prep	1/19/16	

Flag Explanations

Flag	Explanation
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

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BC LabNet - Sample Results #1602959-01RE3

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | [3] 01RE3

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:59

Sampling Location:
Sample Name: 10,000 gal Tank
Sample Date: 1/31/2016 1:40:00 PM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Perchlorate	<4.0	--	4.0	ug/L	1	EPA-314.0	2/17/16	TMS	IC6	BZB1756	No Prep	2/17/16	

Flag Explanations

Flag	Explanation
POL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1602449-03

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | [<] 03 [>]

Golden Empire Water
1605 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:58

Sampling Location:
Sample Name: 10,000 Tank
Sample Date: 1/25/2016 2:50:00 PM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.3	--	0.10	mg/L	1	EPA-300.0	1/26/16	JSW	IC8	BZA2205	No Prep	1/26/16	
Perchlorate	<4.0	--	4.0	ug/L	"	EPA-314.0	2/10/16	"	IC6	BZB1122	"	2/10/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1602017-03

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 03 >

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:56

Sampling Location:
Sample Name: 10,000 Gal Tank
Sample Date: 1/20/2016 10:10:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.6	--	0.10	mg/L	1	EPA-300.0	1/21/16	OLH	IC5	BZA1708	No Prep	1/20/16	
Perchlorate	<4.0	--	4.0	ug/L	"	EPA-314.0	1/30/16	EMW	IC6	BZB0071	"	1/30/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1601759-03

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 03 >

Golden Empire Water
1605 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 16:55

Sampling Location:
Sample Name: 10,000 gal Tank
Sample Date: 1/18/2016 2:00:00 PM

Sampled By: Isalas Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.6	0.018	0.10	mg/L	1	EPA-300.0	1/19/16	OLH	IC5	BZA1477	No Prep	1/19/16	
Perchlorate	ND	0.72	4.0	ug/L	"	EPA-314.0	1/30/16	EMW	IC6	BZA2660	"	1/29/16	

Flag Explanations

Flag	Explanation
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1600971-01

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 01 >

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fellview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:52

Sampling Location:
Sample Name: 10,000 Gas Tank
Sample Date: 1/11/2016 9:25:00 AM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.6	--	0.10	mg/L	1	EPA-300.0	1/12/16	OLH	IC5	BZA0749	No Prep	1/11/16	
Perchlorate	6.7	--	4.0	ug/L	"	EPA-314.0	"	EMW	IC6	BZA0834	"	1/12/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LabNet - Sample Results #1600724-01

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 01 [>]

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
02/23/16 18:52

Sampling Location:
Sample Name: 10,000 gal Tank
Sample Date: 1/7/2016 1:15:00 PM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.9	--	0.10	mg/L	1	EPA-300.0	1/8/16	EMW	IC5	BZA0582	No Prep	1/8/16	
Perchlorate	6.6	--	4.0	ug/L	"	EPA-314.0	1/12/16	OLH	IC6	BZA0708	"	1/11/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

>Disclaimer: Although the information on this page is up to date, BC Laboratories does not guarantee subsequent Reports and EDDs will match the currently displayed information.

Attachment C

Monthly Perchlorate and Nitrate Blending Summary Report
for
February 2016

MONTHLY BLENDING REPORT FOR: FEB16

Water System Name: FAIRVIEW WATER CO- System No. 1502670 Flowmeter calibration: 10-15 (date)

Wells: 1 & 3

Month/Year: FEBRUARY 2016

NITRATE

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern** (ug/l) Raw Water		Well 01	Well 03			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well 01	Well 03	Well 01	Well 03	Well 01	Well 03	C=	F=	G=	H=			
	1502670-001	1502670-003	A	D	B	E	AXB	DXE	C+F	A+D	G/H	1502670-005	
1	92	209	1,610	19,310									
2	92	209	1,610	19,310									
3	92	209	1,610	19,310	5.4 mg/L								
4	92	209	1,610	19,310	12 mg/L	5.4 mg/L	21720	104274	12594	21120	5.4 mg/L	5.4 mg/L	M.C
5	92	209	1,610	19,310									
6	92	209	1,610	19,310									
7	92	209	1,610	19,310									
8	92	209	1,610	19,310									
9	92	209	1,610	19,310									
10	92	209	1,610	19,310		5.4 mg/L							
11	92	209	1,610	19,310									
12	92	209	1,610	19,310									
13	92	209	1,610	19,310								6.2 mg/L	M.C.
14	92	209	1,610	19,310									
15	92	209	1,610	19,310									
16	92	209	1,610	19,310									
17	92	209	1,610	19,310								6.1 mg/L	M.C
18	92	209	1,610	19,310									
19	92	209	1,610	19,310									
20	92	209	1,610	19,310									
21	92	209	1,610	19,310									
22	92	209	1,610	19,310									
23	92	209	1,610	19,310								6.1 mg/L	M.C
24	92	209	1,610	19,310									
25	92	209	1,610	19,310									
26	92	209	1,610	19,310									
27	92	209	1,610	19,310									
28	92	209	1,610	19,310									
29	92	209	1,610	19,310									
30													
31													
Total:			52,500	560,000	12 mg/L	5.4 mg/L						24 mg/L	
Avg:												6.0 mg/L	

***Note:* If the blended nitrate level is 10 mg/L or more (nitrate as nitrogen), notify SWRCB-DDW immediately and take corrective actions.**

nitrate blending form

SWRCB-DDW (12/2015)

MONTHLY BLENDING REPORT FOR: FEB 16 Flowmeter calibration: 10-15 (date)

Water System Name: FAIRVIEW WATER CO. System No. 1502670

Wells: 1 & 3

Month/Year: FEB 24 thru 29 2016

PERCHLORATE

	Flow (gpm)		Total Quantity of Water Produced 1,000-gallons		Constituent of Concern* (ug/l) Raw Water		Well #1	Well #3			Theoretical Blend Conc.	Blended (Lab Results)	Signature of Operator
	Well #1	Well #3	Well #1	Well #3	Well #1	Well #3	C=	F=	G=	H=			
			A	D	B	E	A X B	D X E	C + F	A + D	G/H		
	C												
1	92	209	1,810	19,310									
2	92	209	1,810	19,310									
3	92	209	1,810	19,310									
4	92	209	1,810	19,310	12 ug/L	2.2 ug/L	21720	42462	64182	21120	3.0 ug/L	8.6 ug/L	MC
5	92	209	1,810	19,310									
6	92	209	1,810	19,310									
7	92	209	1,810	19,310									
8	92	209	1,810	19,310									
9	92	209	1,810	19,310									
10	92	209	1,810	19,310									
11	92	209	1,810	19,310								9.2 ug/L	MC
12	92	209	1,810	19,310									
13	92	209	1,810	19,310									
14	92	209	1,810	19,310									
15	92	209	1,810	19,310									
16	92	209	1,810	19,310								9.6 ug/L	MC
17	92	209	1,810	19,310									
18	92	209	1,810	19,310									
19	92	209	1,810	19,310									
20	92	209	1,810	19,310									
21	92	209	1,810	19,310									
22	92	209	1,810	19,310								10.0 ug/L	MC
23	92	209	1,810	19,310									
24	92	209	1,810	19,310									
25	92	209	1,810	19,310									
26	92	209	1,810	19,310									
27	92	209	1,810	19,310									
28	92	209	1,810	19,310									
29													
30													
31													
Total			52,500	560,000								5.6 ug/L	
Avg:												2.1 ug/L	

Note: If the blended perchlorate level is 6.0 ug/L or more, notify CDPH immediately and take corrective actions.

perchlorate blending form

CDPH/ESDWFOS - 08/2010

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BC LabNet - Sample Results #1603616-01

Log In | Search | Help | Log Out

Data Selection | Work List | Work Order | < 01 >

Results for 1603616-01

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:35

Sampling Location:
Sample Name: 10,000gal Tank
Sample Date: 2/4/2016 2:20:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.9	--	0.10	mg/L	1	EPA-300.0	2/5/16	JSW	IC5	BZB0634	No Prep	2/5/16	
Perchlorate	<4.0	--	4.0	ug/L	"	EPA-314.0	2/23/16	EMW	IC6	BZB2390	"	2/23/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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BC LabNet - Sample Results #1604309-01

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Data Selection | Work List | Work Order | < 01 | >

Results for 1604309-01

Golden Empire Water
1605 Candace Ave.
Bakersfield, CA 93307

Project: Drinking Water
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:30

Sampling Location:
Sample Name: 10,000 Gas Tank
Sample Date: 2/11/2016 1:35:00 AM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	8.2	0.022	0.10	mg/L	1	EPA-300.0	2/12/16	EMW	IC5	BZB1428	No Prep	2/12/16	

Flag Explanations

Flag	Explanation
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

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BC LabNet - Sample Results #1604309-01RE1

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Data Selection | Work List | Work Order | < 01RE1 >

Results for 1604309-01RE1

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Drinking Water
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:38

Sampling Location:
Sample Name: 10,000 Gas Tank
Sample Date: 2/11/2016 1:35:00 AM

Sampled By: Isaias Rosas
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Perchlorate	4.2	0.72	4.0	ug/L	1	EPA-314.0	2/26/16	OLH	IC6	BZB2675	No Prep	2/25/16	

Flag Explanations

Flag	Explanation
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

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BC LabNet - Sample Results #1604643-01

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Data Selection | Work List | Work Order | < 01 >

Results for 1604643-01

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:37

Sampling Location:
Sample Name: 10,000 Gal Tank
Sample Date: 2/16/2016 8:55:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.1	--	0.10	mg/L	1	EPA-300.0	2/17/16	OLH	IC2	BZB1601	No Prep	2/16/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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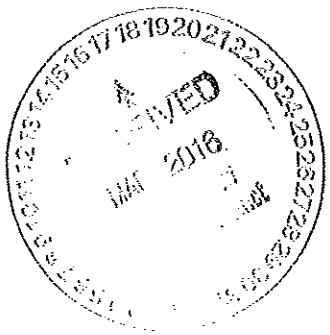

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BC LabNet - Sample Results #1604643-01RE1

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Data Selection | Work List | Work Order | < 01RE1 v >

Results for 1604643-01RE1

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:37

Sampling Location:
Sample Name: 10,000 Gal Tank
Sample Date: 2/16/2016 8:55:00 AM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Perchlorate	4.4	–	4.0	ug/L	1	EPA-314.0	2/27/16	OLH	IC8	BZD2822	No Prep	2/26/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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BC LabNet - Sample Results #1605266-01RE2

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Data Selection | Work List | Work Order | < 01RE2 >

Results for 1605266-01RE2

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: (none)
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:38

Sampling Location:
Sample Name: 10,000 Gal. Tank
Sample Date: 2/22/2016 12:00:00 PM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Perchlorate	<4.0	--	4.0	ug/L	1	EPA-314.0	3/10/16	TMS	IC6	BZC1144	No Prep	3/10/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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BC LabNet - Sample Results #1605266-01

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Data Selection | Work List | Work Order | < 01 >

Results for 1605266-01

Golden Empire Water
1505 Candace Ave.
Bakersfield, CA 93307

Project: Fairview Water Co.
Project Number: [none]
COC Num:
Project Manager: Mario Cervantes

Reported:
03/16/16 21:38

Sampling Location:
Sample Name: 10,000 Gal. Tank
Sample Date: 2/22/2016 12:00:00 PM

Sampled By: Mario Cervantes
Sample Depth:
Sample Matrix: Water

Water Analysis (General Chemistry)

Analyte	Result	MDL	PQL	Units	Dilution	Analysis	Analyzed	Analyst	Instrum	Batch	Prep Method	Prepared	Notes
Nitrate as N	6.1	--	0.10	mg/L	1	EPA-300.0	2/23/16	OLH	IC5	BZ02256	No Prep	2/23/16	

Flag Explanations

Flag	Explanation
PQL	Practical Quantitation Limit

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